

Appln No. 09/575,118
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Reply to Advisory Action of May 7, 2003

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

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Listing of Claims:

1-33. (Cancelled)

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34. (Currently Amended) A method of enabling a ~~person-user~~ to navigate a directory using a list of directory entries printed onto a surface, the list of directory entries corresponding to at least one node of an index of the directory, the surface having coded data disposed therein or thereon, the coded data being indicative of an identity of the list of directory entries and of a plurality of reference points of the list of directory entries, the list of directory entries and the coded data having been printed onto the surface substantially simultaneously and the method including the steps of, in a computer system:
~~causing the list of directory entries and the coded data to be printed onto the surface substantially simultaneously;~~

~~receiving, in a computer system, indicating data from a hand-held sensing device, the indicating data being indicative of both an identity of the list of directory entries and a position of the sensing device relative to the list of directory entries, the sensing device, when placed operatively relative to the list of being adapted to: (a) sense at least some of the coded data when the user touches the sensing device against the surface in the vicinity of a selected printed directory entry;~~ and (b) ~~generating-generate~~ the indicating data based at least partially on ~~sensing~~ using at least some of the sensed coded data;

~~identifying, in the computer system and from using~~ the indicating data, further directory information relating to a selected node of the index of the directory corresponding to the selected printed directory entry; and

~~printing-providing~~ the further directory information ~~on a further surface to the user.~~

35. (Previously Presented) A method as claimed in claim 34, wherein the further directory information includes a list of entries corresponding to at least one further node of the index.

36. (Previously Presented) A method as claimed in claim 35, wherein the selected node of the index of the directory corresponds to one of a first, previous, next or last node in the index.

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37. (Previously Presented) A method as claimed in claim 34, wherein the further directory information includes a list of further nodes in the directory index.

38. (Previously Presented) A method as claimed in claim 37, wherein the selected node of the index of the directory corresponds to one of a parent, child or root node of the index.

39. (Currently Amended) A method as claimed in claim 34, further including the steps of:

receiving, in the computer system, movement data regarding movement of the sensing device relative to the ~~document~~ surface; and

identifying, in the computer system and from the movement data, further directory information relating to a selected node of the index of the directory.

40. (Currently Amended) A method as claimed in claim 39, including the steps of, in the sensing device:

sensing ~~its~~ ~~the~~ movement of the sensing device relative to the ~~document~~ surface using at least some of the sensed coded data;

generating the movement data; and

transmitting the movement data to the computer system.

41. (Currently Amended) A system for enabling a ~~person~~ user to navigate a directory using a list of directory entries printed onto a surface, the list of directory entries corresponding to at least one node of an index of the directory, the surface having disposed therein or thereon coded data indicative of an identity of the list of directory entries and of a plurality of reference points of the list of directory entries, the list of directory entries and the coded data having been printed onto the surface substantially simultaneously, the system including

a computer system which is adapted to:

~~causes the list of directory entries and the coded data to be printed onto the surface substantially simultaneously;~~

receives indicating data from a sensing device, the indicating data being indicative of both an identity of the list of directory entries and a position of the

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sensing device relative to the list of directory entries, the sensing device being adapted to: (a) sense at least some of the coded data when the user touches the sensing device against the surface in the vicinity of a selected ~~when placed~~ operatively relative to the list of printed directory entry; and (b) generate entries, generating the indicating data based using at least partially on sensing at least some of the sensed coded data;

~~identifies~~identify, ~~from using~~ the indicating data, further directory information relating to a selected node of the index of the directory corresponding to the selected printed directory entry; and

~~causes provide~~ the further directory information to ~~be printed on a further surface~~the user.

42. (Previously Presented) A system as claimed in claim 41, wherein the further directory information includes a list of entries corresponding to at least one further node of the index.

43. (Previously Presented) A system as claimed in claim 42, wherein the further node of the index corresponds to one of a first, previous, next or last node in the index.

44. (Previously Presented) A system as claimed in claim 41, wherein the further directory information includes a list of further nodes in the index.

45. (Previously Presented) A system as defined in claim 44, wherein the list of further nodes in the index corresponds to one of a parent, child or root node of the index.

46. (Previously Presented) A system as claimed in claim 41, wherein the computer system is adapted to receive movement data regarding movement of the sensing device relative to the document and interpret said movement of the sensing device as it relates to said at least one node of the index, the sensing device, when moved relative to the document, sensing the reference points using at least some of the coded data and generating the data regarding its own movement relative to the document.

47. (Currently Amended) A method of enabling a ~~person-user~~ to navigate a directory using a list of directory entries printed onto a surface, the list of directory entries

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corresponding to at least one node of an index of the directory and including at least one user interactive element, the surface having disposed therein or thereon coded data indicative of an identity of the at least one user interactive element, the list of directory entries and the coded data having been printed onto the surface substantially simultaneously, the method including the steps of, in a computer system:

~~causing the list of directory entries and the coded data to be printed onto the surface substantially simultaneously;~~

~~receiving, in a computer system, indicating data from a sensing device, the indicating data being indicative of the identity of a selected user interactive element, the sensing device being adapted to: (a) sense at least some of the coded data when the user touches the sensing device against the surface in the vicinity of, when placed operatively relative to the selected user interactive element, generating; and (b) generate the indicating data based at least partially on sensing using at least some of the sensed coded data;~~

~~identifying, in the computer system and from using the indicating data, further directory information relating to the selected user interactive element; and~~

~~printing providing the further directory information on a further surface to the user.~~

48. (Previously Presented) A method as claimed in claim 47, wherein the further directory information includes a list of entries corresponding to at least one further node of the index.

49. (Previously Presented) A method as claimed in claim 48, wherein the further node of the index corresponds to one of a first, previous, next or last node in the index.

50. (Previously Presented) A method as claimed in claim 47, wherein the further directory information includes a list of further nodes in the index.

51. (Previously Presented) A method as claimed in claim 50, wherein the list of further nodes in the index corresponds to one of a parent, child or root node of the index.

52. (Previously Presented) A method as claimed in claim 47, further including the steps of:

receiving, in the computer system, movement data regarding movement of the

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sensing device relative to the selected user interactive element; and

identifying, in the computer system and from the movement data, further directory information relating to the selected user interactive element.

53. (Currently Amended) A method as claimed in claim 52, further including the steps of the sensing device:

sensing its movement relative to the selected user interactive element using at least some of the sensed coded data;

generating the movement data; and

transmitting the movement data to the computer system.

54. (Currently Amended) A system for enabling a ~~person-user~~ to navigate a directory using a list of directory entries printed onto a surface, the list of directory entries corresponding to at least one node of an index of the directory and including at least one user interactive element, the surface having disposed therein or thereon coded data indicative of an identity of the at least one user interactive element, the list of directory entries and the coded data having been printed onto the surface substantially simultaneously, the system including

a computer system which is adapted to:

~~causes the list of directory entries and the coded data to be printed onto the surface substantially simultaneously;~~

receives indicating data from a sensing device, the indicating data being indicative of the identity of a selected user interactive element, the sensing device being adapted to: (a) sense at least some of the coded data when the user touches the sensing device against the surface in the vicinity of when placed operatively relative to the selected user interactive element, generating; and (b) generate the indicating data ~~based at least partially on sensing~~ using at least some of the sensed coded data;

~~identifies~~ identify, ~~from using~~ the indicating data, further directory information relating to the selected user interactive element; and

~~causes provide~~ the further directory information to be printed on a further ~~surface~~ the user.

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55. (Previously Presented) A system as claimed in claim 54, wherein the further directory information includes a list of entries corresponding to at least one further node of the index.

56. (Previously Presented) A system as claimed in claim 55, wherein the further node of the index corresponds to one of a first, previous, next or last node in the index.

57. (Previously Presented) A system as claimed in claim 54, wherein the further directory information includes a list of further nodes in the index.

58. (Previously Presented) A system as defined in claim 57, wherein the list of further nodes in the index corresponds to one of a parent, child or root node of the index.

59. (Previously Presented) A system as claimed in claim 54, wherein the computer system is adapted to:

receive movement data regarding movement of the sensing device relative to the selected user interactive element; and

identify from the movement data, further directory information relating to the selected user interactive element.

60. (Currently Amended) A system as claimed in claim 59, further including a sensing device adapted to:

sense its movement relative to the selected user interactive element using at least some of the sensed coded data;

generate the movement data; and

transmit the movement data to the computer system.